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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,358	04/09/2004	Sheng-Shiou Yeh		1201
25859	7590	07/19/2005		
WEI TE CHUNG FOXCONN INTERNATIONAL, INC. 1650 MEMOREX DRIVE SANTA CLARA, CA 95050			EXAMINER CHEN, LUCY P	
			ART UNIT 2871	PAPER NUMBER

DATE MAILED: 07/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Office Action Summary</b>	<b>Application No.</b> 10/821,358	<b>Applicant(s)</b> YEH ET AL.	
	<b>Examiner</b> Lucy P. Chien	<b>Art Unit</b> 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |  |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

**Claim 1-5,12** are rejected under 35 U.S.C. 102(a) as being unpatentable over admitted prior art (admission).

#### *Regarding Claim 1,*

Admission discloses in Figure 5 a transparent substrate (2) forming a black matrix (9) comprising an antireflection layer (3,4) formed on the transparent substrate (2) and a light-shielding layer (5) formed on the antireflection layer (3,4), the antireflection layer comprising a first antireflection film (3) having a first index of refraction, and a second antireflection film (4) having a different second index of refraction and coating a color resin layer (R,G,B) on the transparent substrate (2) and the black matrix (9).

#### *Regarding Claim 2,*

Admission discloses (Page 1, [0008]) the black matrix which includes the antireflection layer and light-shielding layer comprises of chromium.

#### *Regarding Claim 3,*

Admission discloses in Figure 5 the color resin layers comprising of RGB (red, green, blue).

#### *Regarding Claim 4,*

Admission discloses in Figure 5 the color resin layers respectively fill each three contiguous apertures.

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Regarding Claim 5.

Admission discloses in Figure 5 a respective portion of each of the RGB resins at each aperture covers a corresponding portion of the black matrix.

Regarding Claim 12.

Admission discloses in Figure 5 a transparent substrate (2) forming a black matrix (9) having a plurality of apertures on the transparent substrate (2) and coating a color resin layer (R,G,B) on the transparent substrate (2) and the black matrix (9).

**Claim 13** is rejected under 35 U.S.C. 102(a) as being anticipated by Yoshida (US 6285424).

Yoshida discloses (Figure 4) a transparent substrate (2) forming a black matrix (BM) having a plurality of apertures on the transparent substrate (2) coating a color resin layer (R,B,G) on the transparent substrate (2) and the black matrix (BM) forming an ITO layer (Column 15, Row 47-54) on the color resin layer (R,G,B) formed on an inner surface thereof, and forming a cavity between the ITO layer and the TFT layer (20) and filling a liquid crystal layer (22) in the cavity.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claim 6** is rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (admission) in view of Fukuyoshi (US 4853296).

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Admission discloses everything as stated above.

Admission lacks or does not expressly disclose adjoining RGB's.

Fukuyoshi discloses (Figure 3) adjoining RGB (15) resins at two adjacent apertures cover the black matrix (10).

It would have been obvious to one of ordinary skill in the art, at the time of the invention to have the admission display device to include Fukuyoshi's adjoining RGB to reduce the thickness of the displays. (Column 1, 17-25)

**Claim 7-11** are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (admission) in view of Kim et al (US 5850271).

Regarding Claim 7,

Admission discloses in figure 5, the color resin layer (RGB) on the transparent substrate (2) and the black matrix (9) further comprises the steps of forming a first color resin sub-layer (RGB) on the transparent substrate (2) and the black matrix (9).

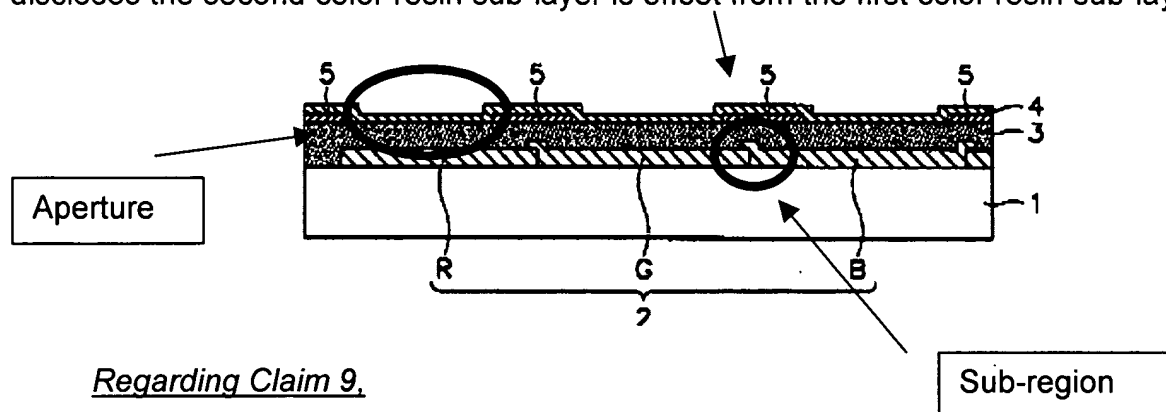
Admission does not disclose a second color resin sub-layer on the first color resin sub-layer.

Kim et al discloses (Figure 5) the first color resin sub-layer (a small part of B on tope of G) on the transparent substrate (1) formed on the second color resin-sub-layer (G under a small part of B) on the first color resin sub-layer.

It would have been obvious to one of ordinary skill in the art, at the time of the invention to have the admission display device to include Kim et al's first and second color resin sub-layer reduce a light reflection rate at the surface of the panel.

Regarding Claim 8.

In addition to the admission and Kim et al disclosed above, Kim et al also discloses the second color resin sub-layer is offset from the first color resin sub-layer.



Regarding Claim 9.

In addition to the admission and Kim et al disclosed above, Kim et al also discloses forming contiguous RGB color resin regions on the transparent substrate (1) and forming RGB color resin sub-regions in voids between adjacent RGB color resin regions. (as shown in figure above).

Regarding Claim 10.

In addition to the admission and Kim et al disclosed above, Kim et al also discloses the RGB color resin regions corresponding to respective apertures (Figure above (5)).

Regarding Claim 11.

In addition to the admission and Kim et al disclosed above, Kim et al also discloses the RGB color resin sub-regions correspond to respective portions of the black matrix between apertures. (shown in figure above)

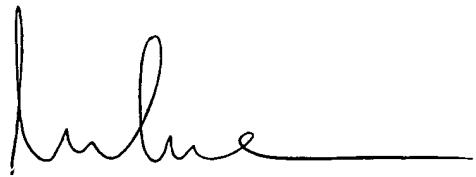
### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lucy P. Chien whose telephone number is 571-272-8579. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571)272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lucy Chien  
Examiner  
Art Unit 2871  
LC



**DUNG T. NGUYEN**  
**PRIMARY EXAMINER**